



DENSITY & MOISTURE DETERMINATION REPORT

DATE: 9/18/2019

JOB NUMBER: 2019057C (PW-7007)

PROJECT NAME: Bagley Streetscape

LOCATION: Detroit, MI

GAUGE NUMBER: 23944

CLIENT: AECOM

OWNER: Cety of Detroit (CED)

CONTRACTOR: MAJOR

PROJECT ENGINEER: Alan Ostrowski (AECOM)

WEATHER: CLOUDY

TEST PERFORMED ON:

SUBGRADE

SUBBASE

X

AGGREGATE BASE

BACKFILL

OTHER

STRUCTURE: SUBBASE and AGGREGATE BASE ON BAGLEY FOR SIDEWALK

TEST

WET DENSITY

MOISTURE

DRY DENSITY

TEST LOCATION

ORIG.

RETEST

DEPTH

DENSITY
COUNTSWET
DENSITYMOIST.
COUNTS

MOIST.

MOIST.

DRY
DENSITYMAX
DENSITY

COMPACT.

STATIONING/LOCATION

OFFSET OF
CL (FT)DBG
(FT)

INCH

DC

PCF

MC

PCF

%

PCF

PCF

%

LEFT

RIGHT

1

2

2029

126.0

84

6.5

5.5

119.4

127.1

94.0

BAGLEY WB From fisher fwy

13.0

0.8

9-18-2019

1

2

2018

126.3

74

5.6

4.6

120.7

127.1

95.0

BAGLEY WB From fisher fwy

13.0

0.8

2

8

989

127.2

150

12.9

11.3

114.3

117.8

97.0

BAGLEY WB From 23RD ST

12.0

1

3

Remarks

8

1334

114.4

190

16.7

17.1

97.7

Remark

Remarks

BAGLEY WB FROM 23RD ST

13.0

1

MAXIMUM DETERMINATION (FIELD) NOTE: To convert (g) to (lbs): Wt (g) / 453.59 = Wt. (lbs)

STANDARDIZATION

TEST #

MOIST. %

MOLD VOL.
(CFT)WET SOIL +
MOLD (g)

MOLD (g)

WET SOIL
(g)WET SOIL
(lbs)COMPACTED
WET SOIL PCFMAX
DENSITYOPTIMUM
MOIST. %

MATERIAL

DENSITY

MOISTURE

READING 1

1831

626

1

5.5

0.0454

4744

2010

2734

6.03

132.8

127.1

9.9

4G
LIMESTONE
SAND AND
STONE MIX
CLAY SAND
MIX

READING 2

1820

630

2

11.3

0.0454

4704

2010

2694

5.94

130.8

117.8

12.5

READING 3

1837

632

3

17.1

0.0336

4232

2236

1996

4.40

131.0

READING 4

1815

625

OPERATING STANDARD (READING 5)

DENSITY

MOISTURE

1817

625

MIN. COMPACTION REQUIRED:

100.0%

98.0%

X

95.0%

X

90.0%

X

OTHER

MAXIMUM DRY DENSITY BY:

X

MICH. CONE

D1557

X

T-99

X

T-180

X

OTHER

REMARKS:

Test #3 Water content was higher than optimum moisture and material was undercut.

SOMAT FIELD REPRESENTATIVE: Andrew Lee

DATE: 9/18/2019

SOMAT PROJECT MANAGER(s): Steve Drummond

DATE: 9/19/2019

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